

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for preparing a ~~heat-resistant~~ thermoplastic resin composition having ~~[[an]]~~ excellent heat stability and heat resistance, which comprises ~~comprising~~ the steps of:

a) ~~[[a]]~~ preparing a graft ABS polymer ~~[through]~~ by emulsion polymerization ~~by~~ comprising of:

- i) 40 to 70 wt parts of conjugated diene rubber latex;
- ii) 15 to 40 wt parts of an aromatic vinyl compound; and
- iii) 5 to 20 wt parts of a vinyl cyanide;

b) ~~[[a]]~~ preparing a copolymer having ~~heat-resistant through~~ excellent heat resistance by mass polymerization ~~by comprising of:~~

- i) 50 to 80 wt parts of an aromatic vinyl compound; and
- ii) 20 to 50 wt parts of a vinyl cyanide; ~~[[and]]~~

the mass polymerization is controlled so that the copolymer comprises less than 15% of aromatic vinyl-aromatic vinyl-aromatic vinyl chain structure; and

c) ~~a mixing~~ blending the graft ABS polymer and the copolymer having excellent heat resistance.

2. (Currently Amended) The method according to claim 1, wherein the conjugated diene rubber latex ~~of a) i) step~~ has 2500~5000 Å of number average particle size, ~~[[and]]~~ 70~95 % of gel content, and 12~30 of swelling index.

3. (Currently Amended) The method according to claim 1, wherein the ~~graft rate of graft ABS polymer of a) step is over 26%~~ a) graft ABS polymer has a graft rate of 26% or more, as percentage of the weight of grafted monomers based on the weight of the rubber latex.

4. (Currently Amended) The method according to claim 1, wherein the ~~molecular structure of heat-resistant copolymer of b) step~~ copolymer in step b) comprises less than 15% ~~[[chain]]~~ of alphas-methyl styrene-alphas-methyl styrene-alphas-methyl ~~styrene~~ styrene (AMS-AMS-AMS), chain and ~~less than 40% chain~~ 45% or less of alphas-methyl styrene-acrylonitrile-acrylonitrile (AMS-AN-AN) chain.

5. (Currently Amended) The method according to claim 1, wherein the conjugated diene rubber latex ~~of a) i) step~~ is an aliphatic conjugated diene compound ~~mixture~~, or a mixture of an aliphatic conjugated diene compound and ~~unsaturated monomer of an~~ ethylene-based unsaturated monomer.

6. (Original) The method according to claim 1, wherein the a) ii) aromatic vinyl compound is selected from the group consisting of styrene,  $\alpha$ -methyl styrene, o-ethyl styrene, p-ethyl styrene, and vinyl toluene.

7. (Original) The method according to claim 1, wherein the a) iii) vinyl cyanide is selected from the group consisting of acrylonitrile, methacrylonitrile, and ethacrylonitrile.

8. (Original) The method according to claim 1, wherein the b) i) aromatic vinyl compound is selected from the group consisting of styrene,  $\alpha$ -methyl styrene, o-ethyl styrene, p-ethyl styrene, and vinyl toluene.

9. (Original) The method according to claim 1, wherein the b) ii) vinyl cyanide is selected from the group consisting of acrylonitrile, methacrylonitrile, and ethacrylonitrile.

10. (Currently Amended) The method according to claim 1, wherein ~~the mixing ratio of e) step is in step c)~~ 20 to 80 wt parts of the graft ABS polymer and 80 to 20 wt parts of the copolymer having excellent heat-resistance are blended.

11. (Currently Amended) The method according to claim 1, wherein ~~the mixing of e)~~ comprises further an in step c), one or more additives selected from the group consisting of antiadditive, oxidation inhibitor, a lubricant, an antioxidant, a light stabilizer are further added.

12. (Currently Amended) The method according to claim 1, wherein the conjugated diene rubber latex ~~of a)1)step is prepared by comprising the steps of:~~

~~first, reacting for 7~12 hrs at 50~65 °C by adding in a lump 100 wt parts of conjugated diene, 1~4 wt parts of emulsifier, 0.1~0.6 wt parts of polymerization initiator, 0.1~1.0 wt parts of the electrolyte, 0.1~0.5 wt parts of the molecular weight controlling agent, and 90~130 wt parts of the ion-exchange water in polymerization reactor;~~

~~preparing the conjugated diene rubber latex having a small diameter, which is the average particle diameter 60~1500 Å, the gel content is 70~95%, the swelling index is 12~30, by the second reacting for 5~15 hrs at 55~70 °C by further adding in a lump 0.05~1.2 wt parts of the molecular weight controlling agent; and~~

~~preparing the conjugated diene rubber latex having a large diameter, which is that average particle diameter 2500~5000 Å, the gel content is 70~95 %, the swelling index is 12~30, by increating the particle and followed by stopping of stirring by adding under stirring for 1 hr 2.5~4.5 wt parts of aqueous of solution of acetic acid in 100 wt parts of the conjugated diene rubber latex having a large diameter.~~

a) simultaneously introducing 100 wt parts of a conjugated diene, 1~4 wt parts of an emulsifier, 0.1~0.6 wt parts of a polymerization initiator, 0.1~1.0 wt parts of an electrolyte, 0.1~0.5 wt parts of a molecular weight controlling agent, and 90~130 wt parts of ion exchanged water into a polymerization reactor, and reacting them at 50 to 65 °C for 7 to 12 hours;

b) simultaneously introducing 0.05 ~ 1.2 wt parts of a molecular weight controlling agent into the reactant obtained in step a), and reacting them at 55 to 70 °C for 5 to 15 hours to prepare conjugated diene rubber latex having a small diameter, which has number average particle diameter of 600~1500 Å, gel content of 70~95 %, and swelling index of 12~30; and

c) introducing 2.5 ~ 4.5 wt parts of an acetic acid aqueous solution into 100 wt parts of the conjugated diene rubber latex having a small diameter prepared in step b) while stirring for 1 hour to increase particle size of the latex, thereby preparing conjugated diene rubber latex having

a large diameter, which has number average particle diameter of 2500~5000 Å, gel content of 70~95 % and swelling index of 12~30.

13. (Currently Amended) The method according to claim 1, wherein the a) graft ABS polymer of a) step is prepared by comprising the steps of:

[[by]] a) adding

i) 40 to 70 wt parts of the conjugated diene rubber latex;

ii) 15 to 40 wt part of the aromatic vinyl compound;

iii) 5 to 20 wt part of the vinyl cyanide compound;

iv) 0.2 to 0.6 wt parts of an emulsifier;

v) 0.2 to 0.6 wt parts of [[the]] a molecular weight controlling agent; and

vi) 0.1 to 0.5 wt parts of [[the]] a polymerization initiator

[[in]] into a polymerization reactor, and

[[by]] b) conducting a graft copolymerizing copolymerization under conditions of polymerization temperature of 45 to 80 °C of polymerization temperature and polymerization time of 3 to 5 hrs of the polymerization time.

14. (Currently Amended) The method according to claim 13, wherein ~~the method of adding is selected from the group consisting of addition method in a lump, multi-step addition method, and continuous addition method~~ introduction is conducted simultaneously, in multi-stage or continuously.

15. (Currently Amended) The method according to claim 13, wherein the emulsifier is at ~~least one~~ selected from the group consisting of alkyl aryl sulfonate, alkalimetal alkyl sulfate, sulfonated alkyl ester, soap of fatty acid, ~~and alkali salts of rosinate, and a mixture thereof.~~

16. (Currently Amended) The method according to claim 13, wherein the polymerization initiator is ~~at least one~~ selected from the group consisting of cumene hydroperoxide, ~~diisopropyl~~ diisopropyl benzene hydroperoxide, persulfate, sodium formaldehyde sulfoxylate, sodium ethylene diamine tetraacetate, ferrous sulfate, dextrose, sodium pyrrolinate, sodium sulfite, and a mixture thereof.

17. (Currently Amended) The method according to claim 1, wherein the ~~heat-resistant copolymer of b) step prepared by comprising the steps of b) copolymer is prepared by:~~

[[by]] a) mixing

i) 50 to 80 wt part of the aromatic vinyl compound;

ii) 20 to 50 wt part of the vinyl cyanide compound;

iii) 26 to 30 wt parts of a solvent; and

iv) 0.1 to 0.5 wt parts of [[the]] a molecular weight controlling agent

in a polymerization reactor, and

[[by]] b) conducting mass polymerization under conditions of polymerization temperature of 140 to 170 °C of polymerization temperature and polymerization time of 2 to 4 hrs of the polymerization time.

18. (New) The method according to claim 1, wherein the mass polymerization is controlled so that the copolymer further comprises 45% or less of aromatic vinyl-vinyl cyanide-vinyl cyanide chain structure.